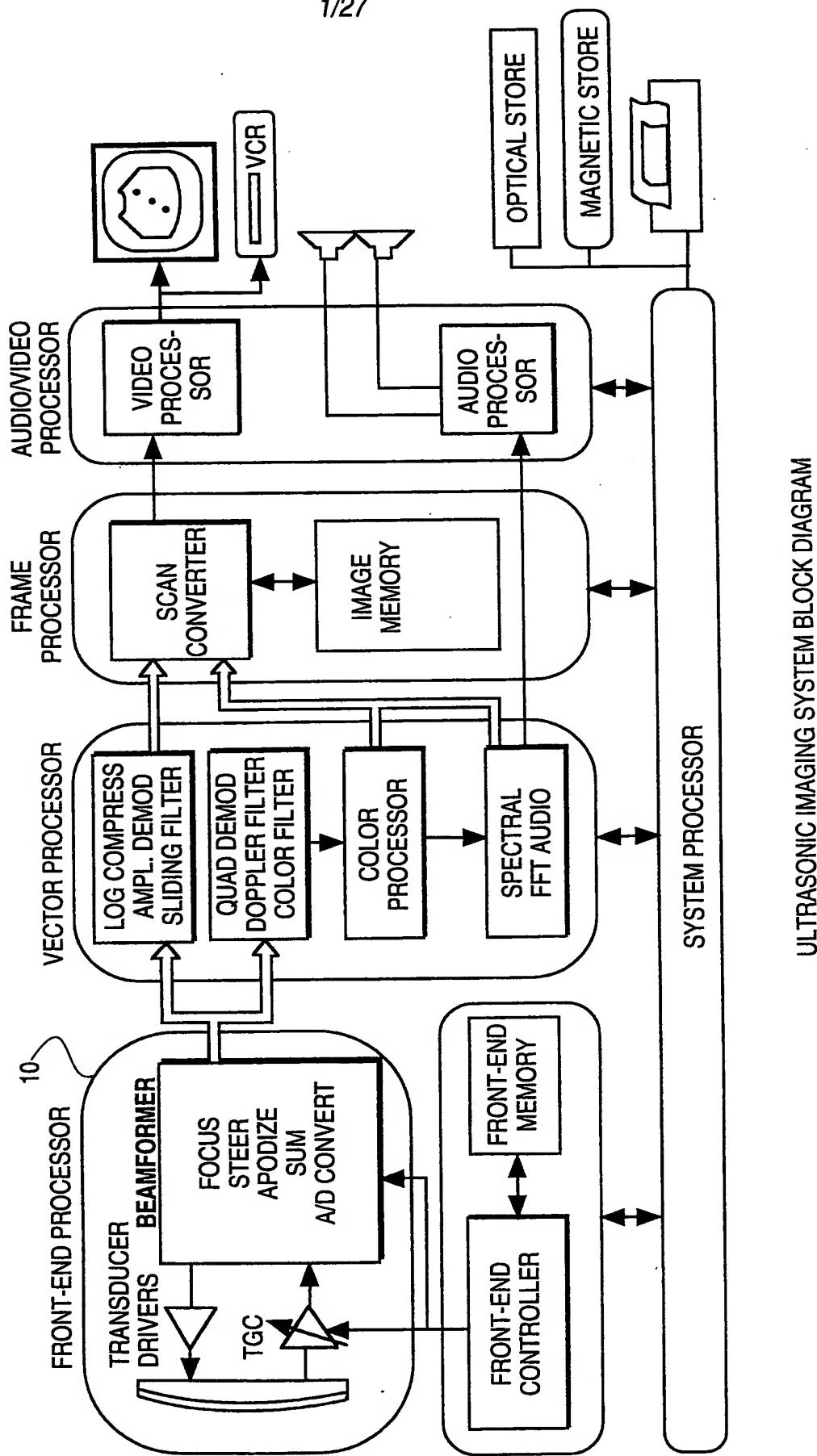
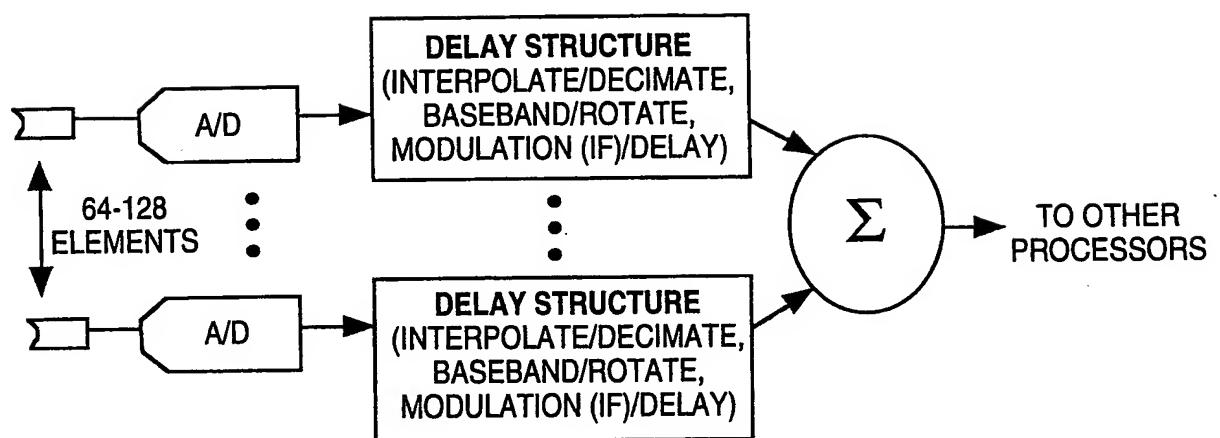


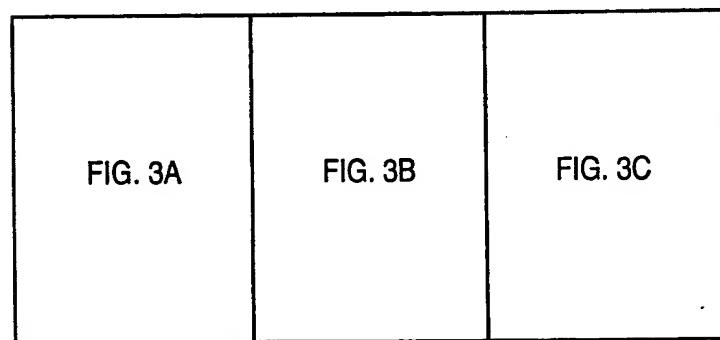
**FIG. 1**

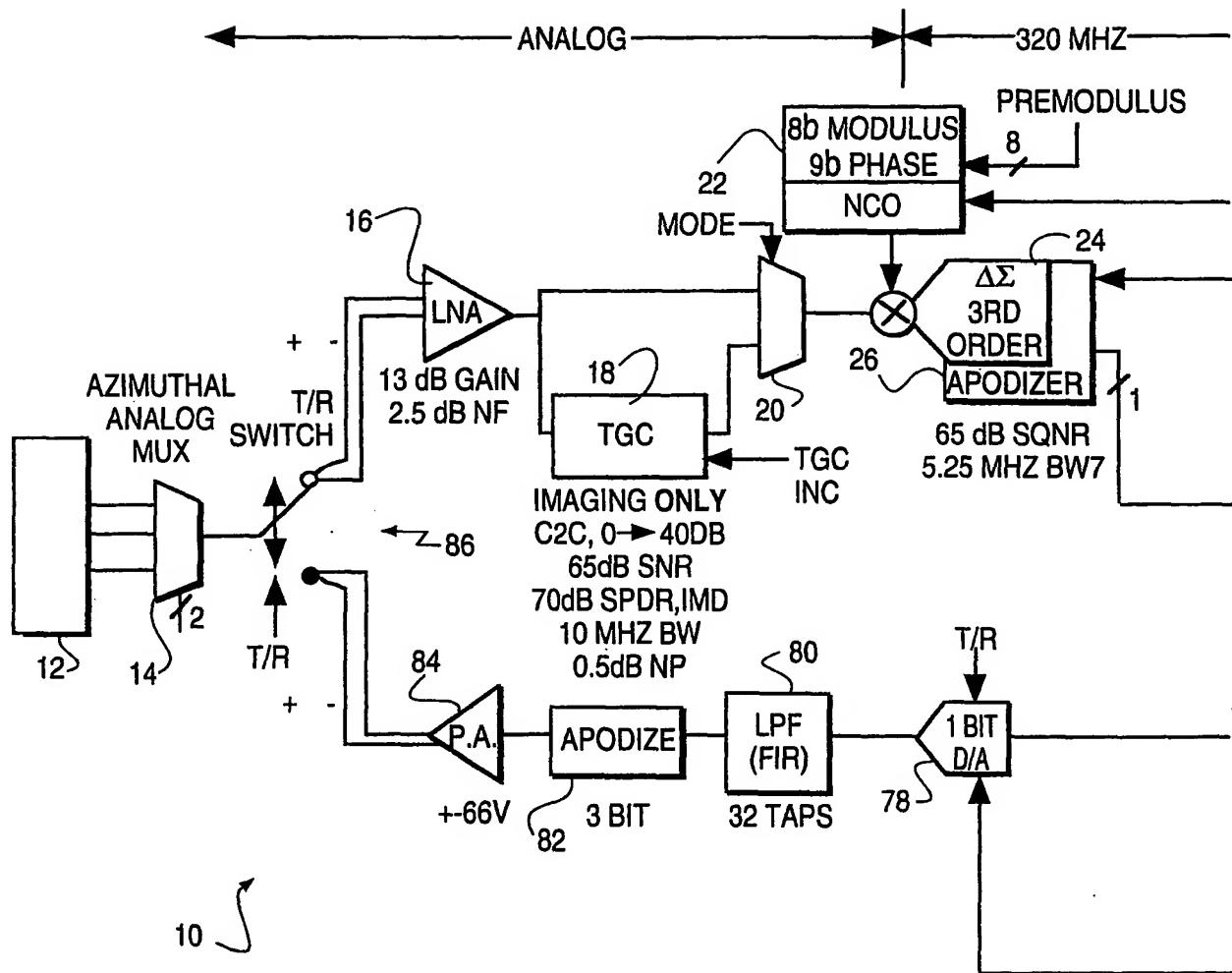
ULTRASONIC IMAGING SYSTEM BLOCK DIAGRAM

**FIG. 2**  
PRIOR ART



**FIG. 3**



**FIG. 3A**

LEGEND:	
→	CONTROL LINES AND CIRCUITS
TEXT	THAT CHANGE DURING ONE BEAM
→	CONTROL LINES FIXED DURING A BEAM-DOUBLE BUFFERED SO PRELOAD DURING A BEAM
→	RARELY IF EVER CHANGES-POWER UP/RESET

FIG. 3B

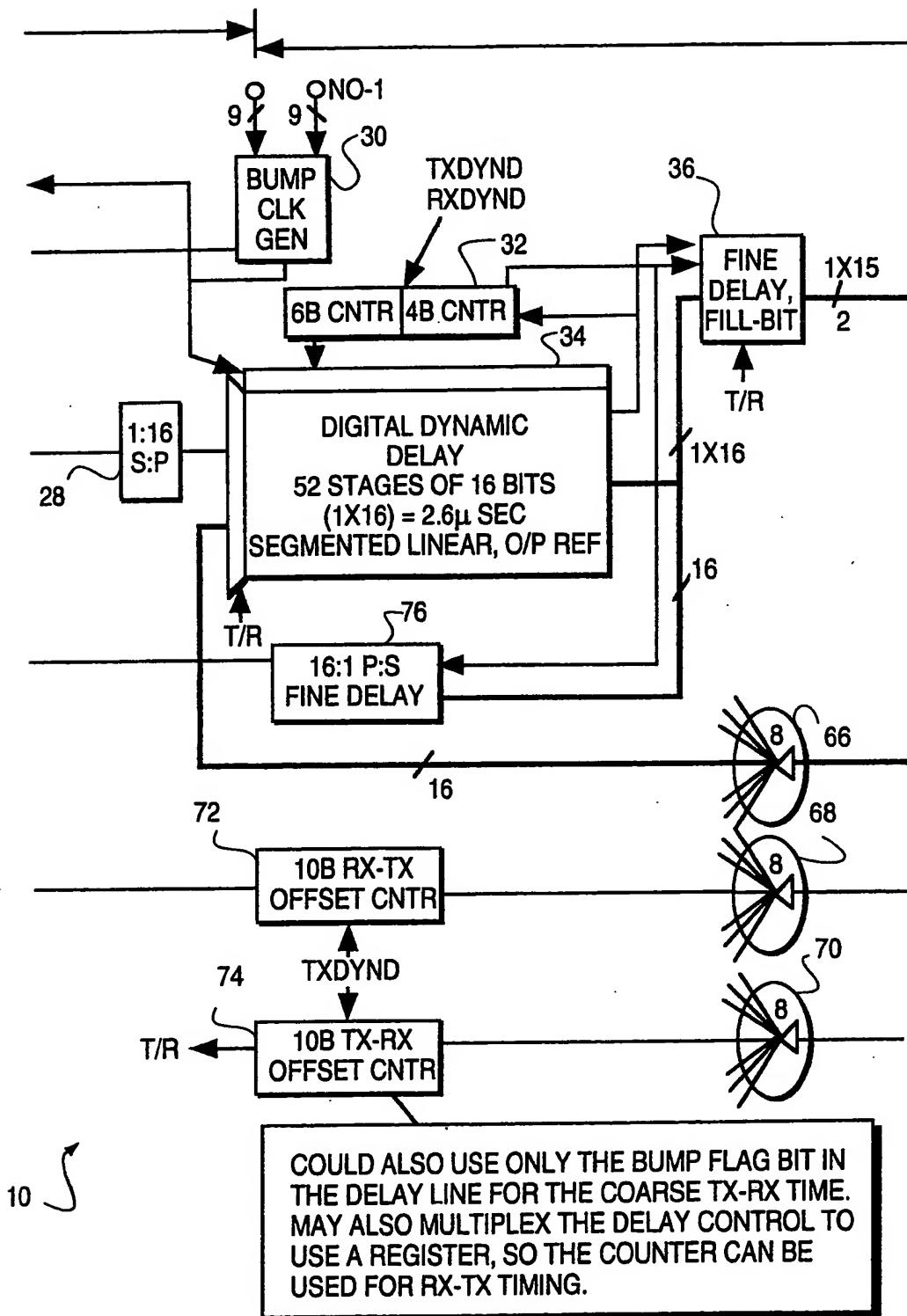
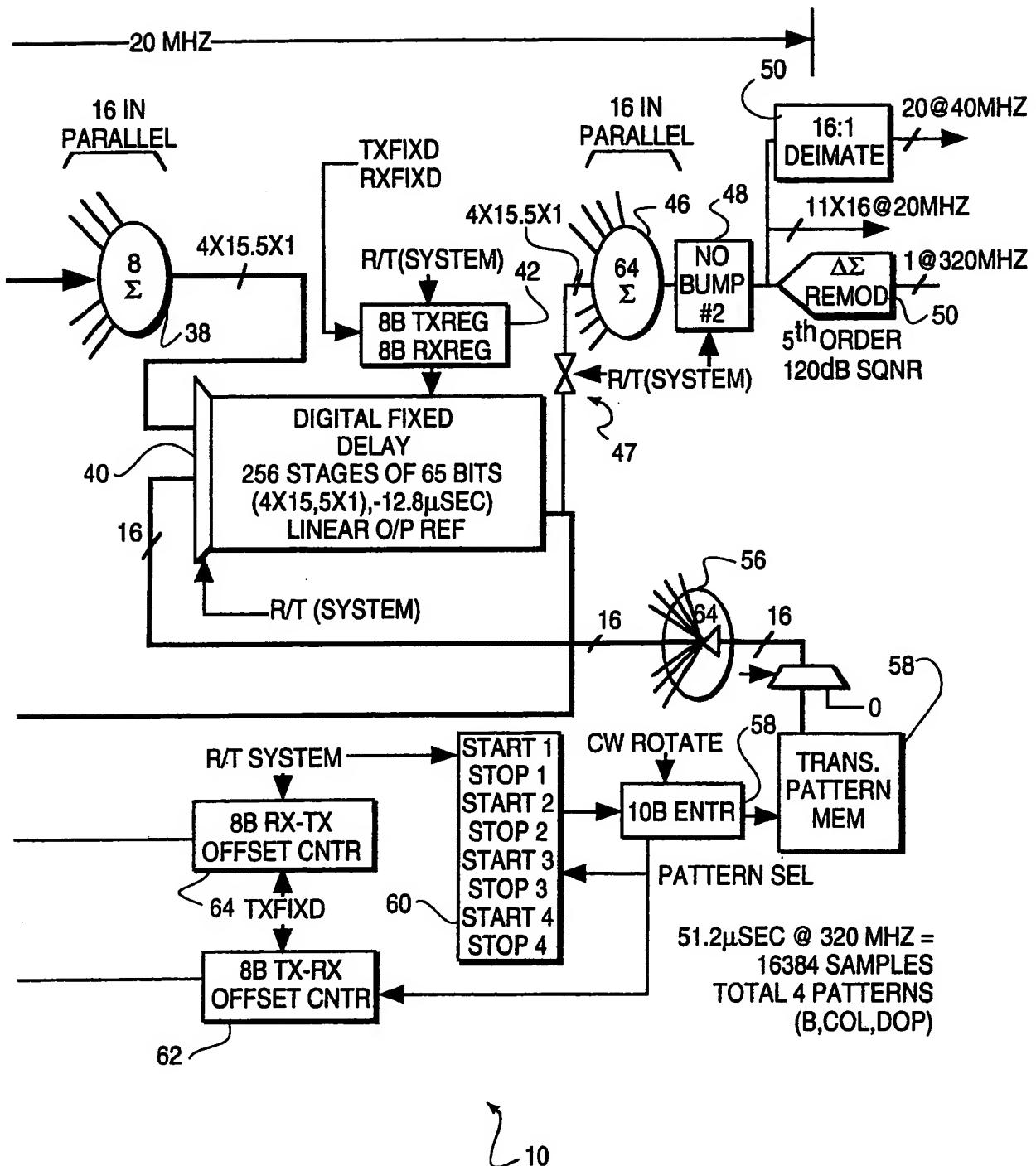
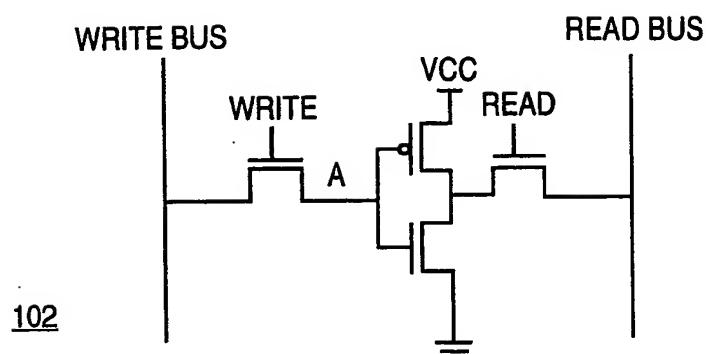
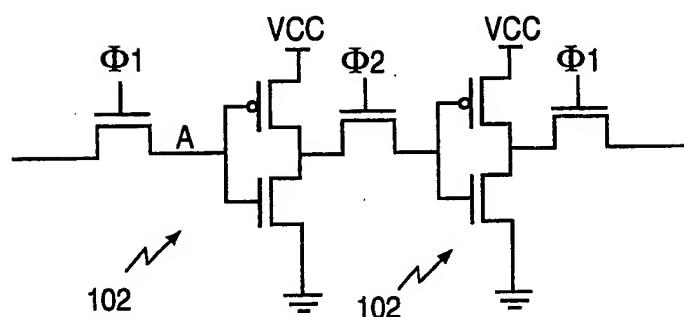
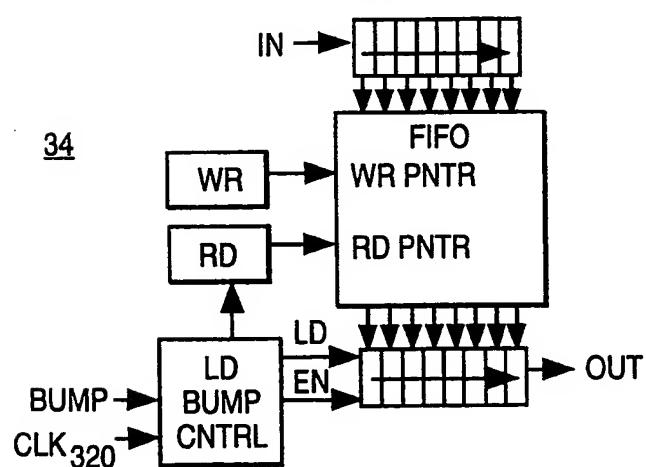
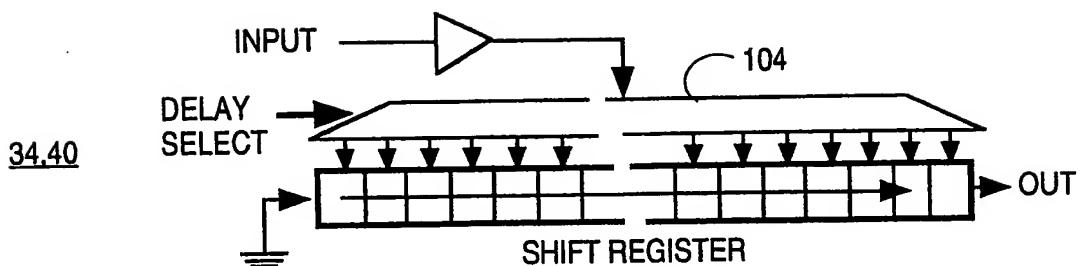
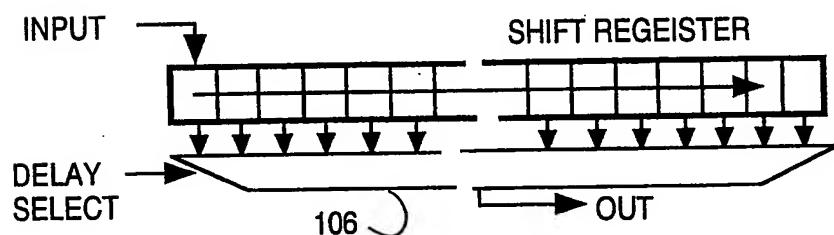
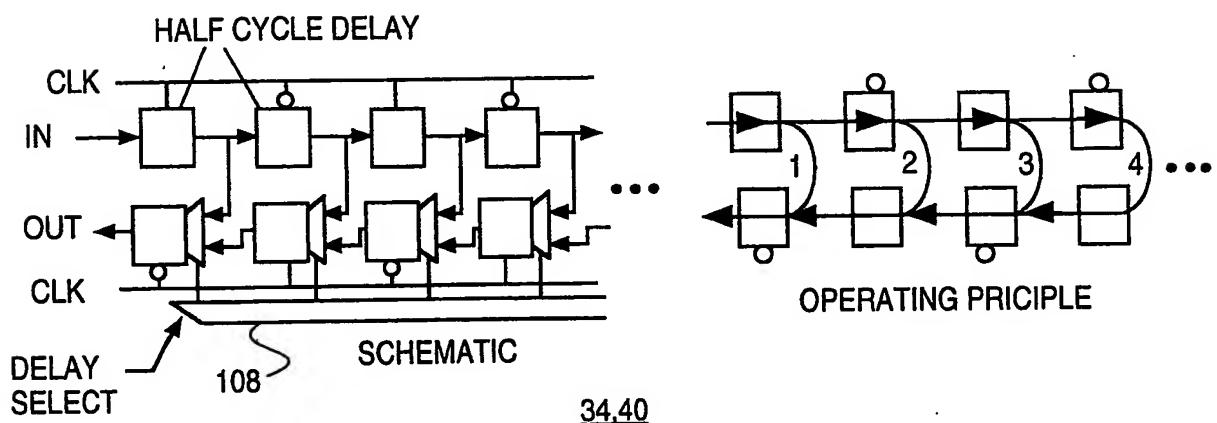
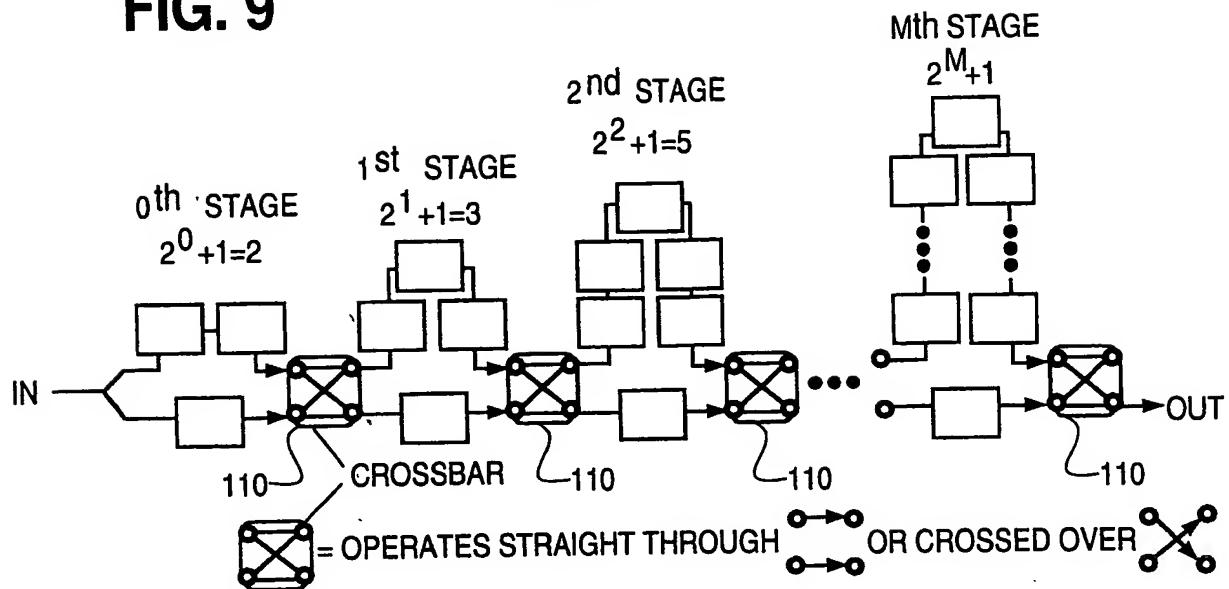
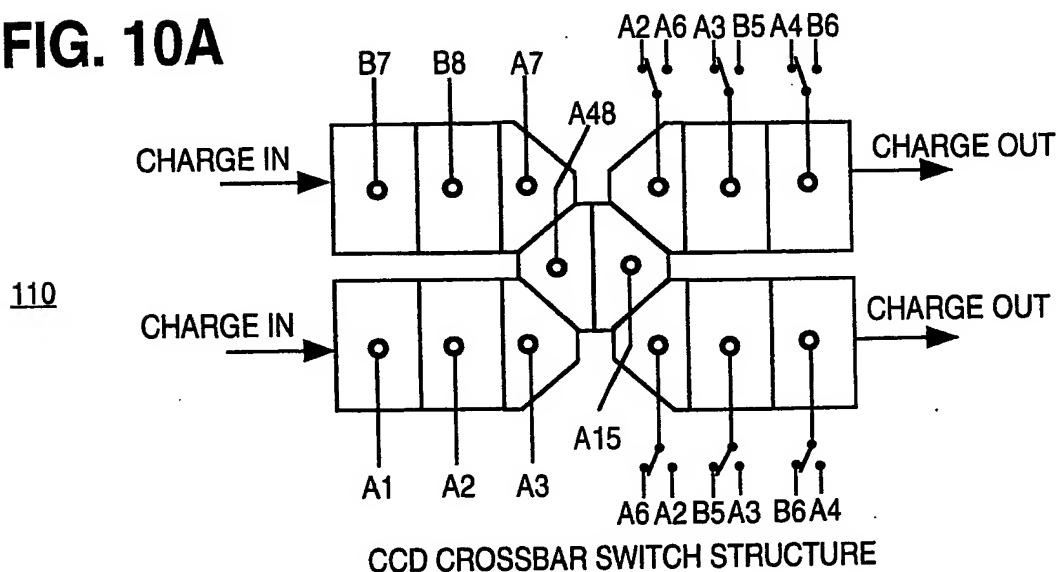


FIG. 3C



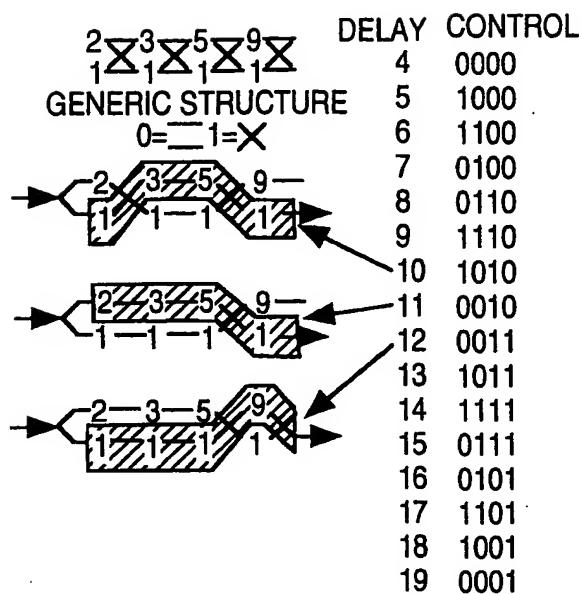
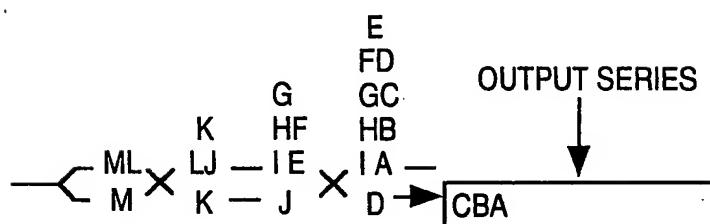
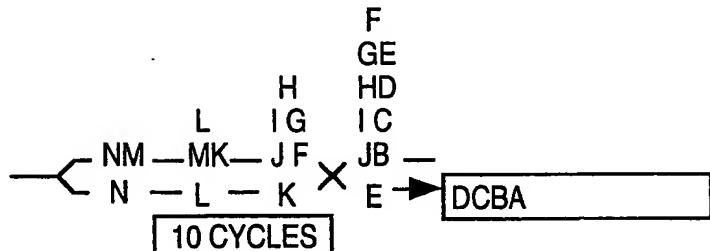
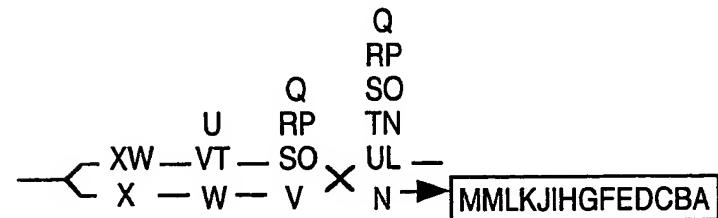
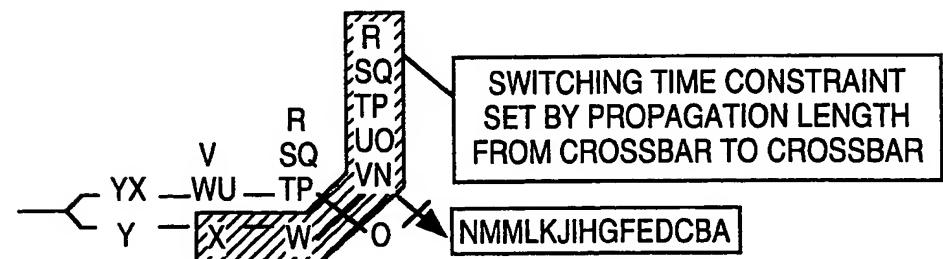
**FIG. 4****FIG. 5****FIG. 6**

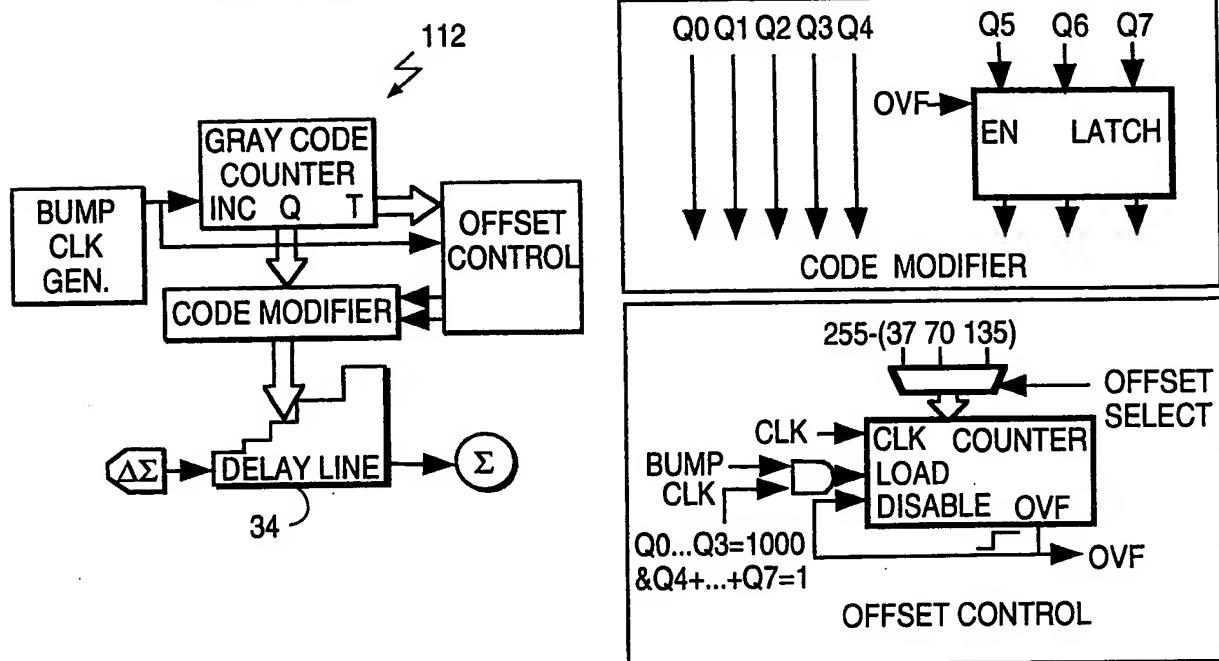
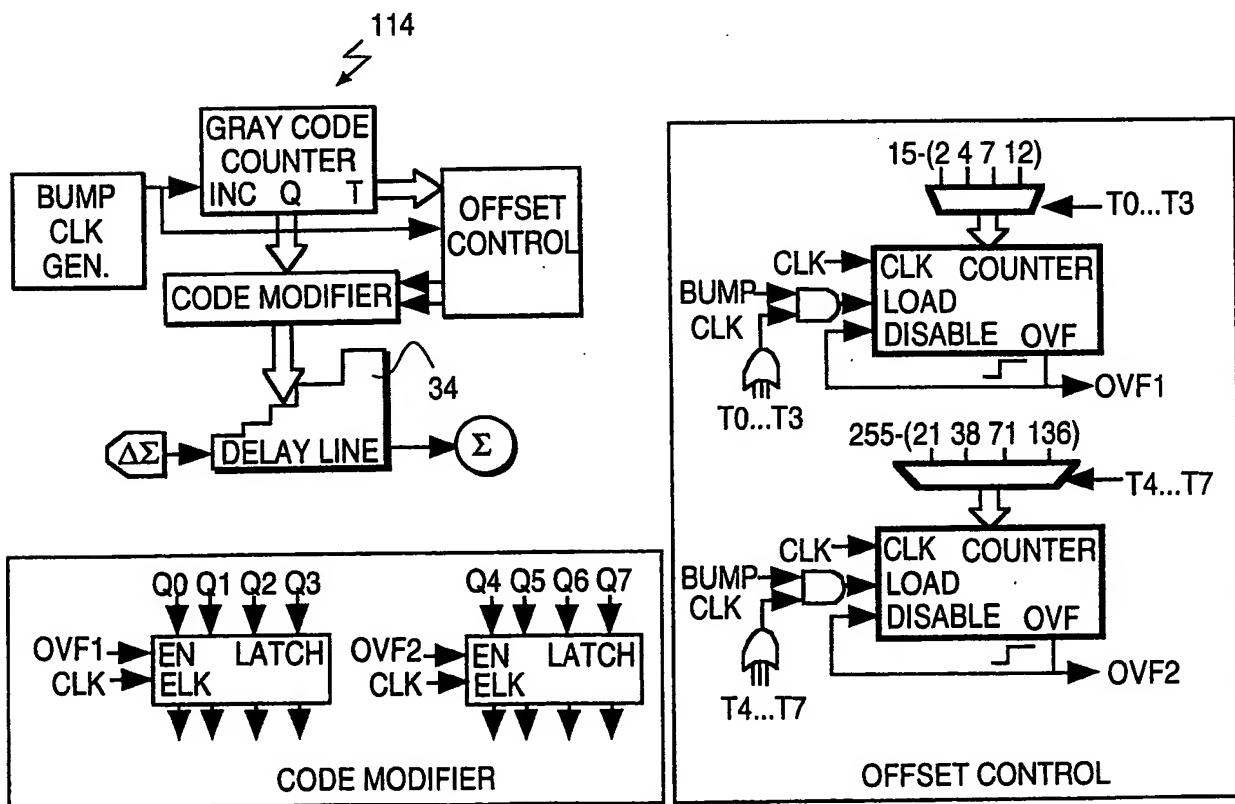
**FIG. 7A****FIG. 7B**34.40**FIG. 8**

**FIG. 9**34.40**FIG. 10A****FIG. 10B**

A1	A2	A3	A4	A5	A6	A7	A8	B5	B6	B7	B8	A48	A15
1	1	0	0	0	0	0	0	1	1	1	1	0	1
0	1	1	0	0	0	0	0	1	1	1	1	0	0
0	0	1	1	0	0	0	0	1	1	1	1	1	0
0	0	0	1	1	0	0	0	0	1	1	1	0	1
0	0	0	0	1	1	0	0	0	1	0	1	0	0
0	0	0	0	0	1	1	0	1	1	1	0	1	0
1	0	0	0	0	0	0	1	1	1	1	0	1	1

CLOCK PATTERN

**FIG. 11****FIG. 12A****FIG. 12B****FIG. 12C****FIG. 12D**

**FIG. 13****FIG. 14**

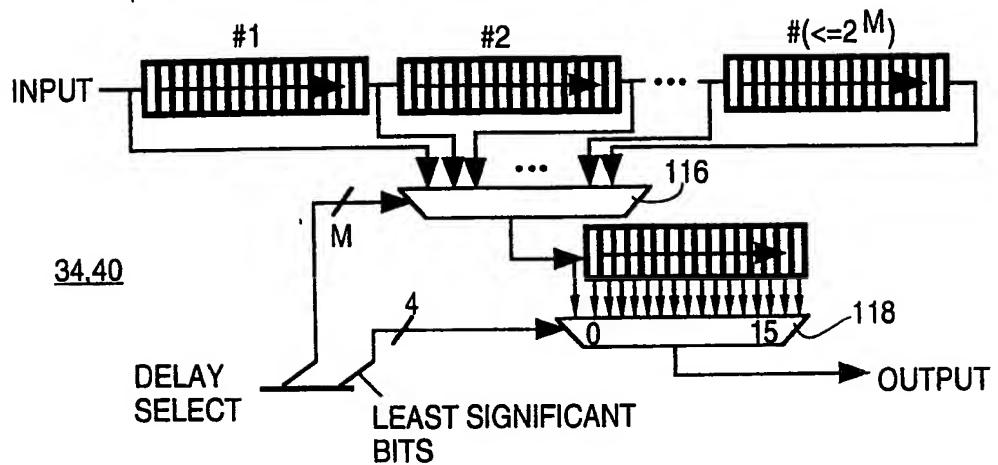
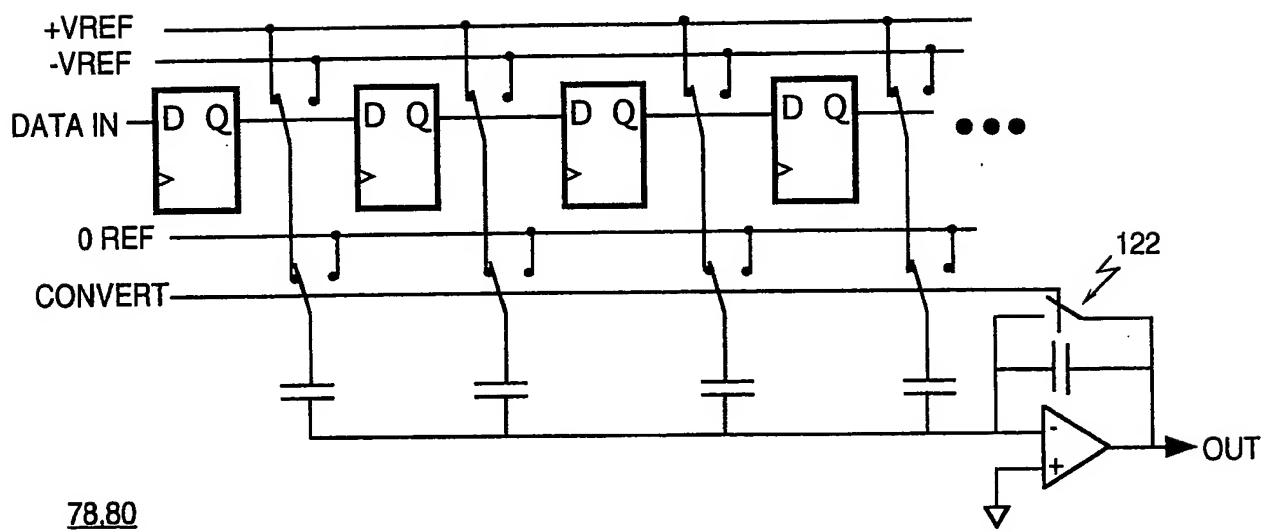
**FIG. 15****FIG. 16**

FIG. 17

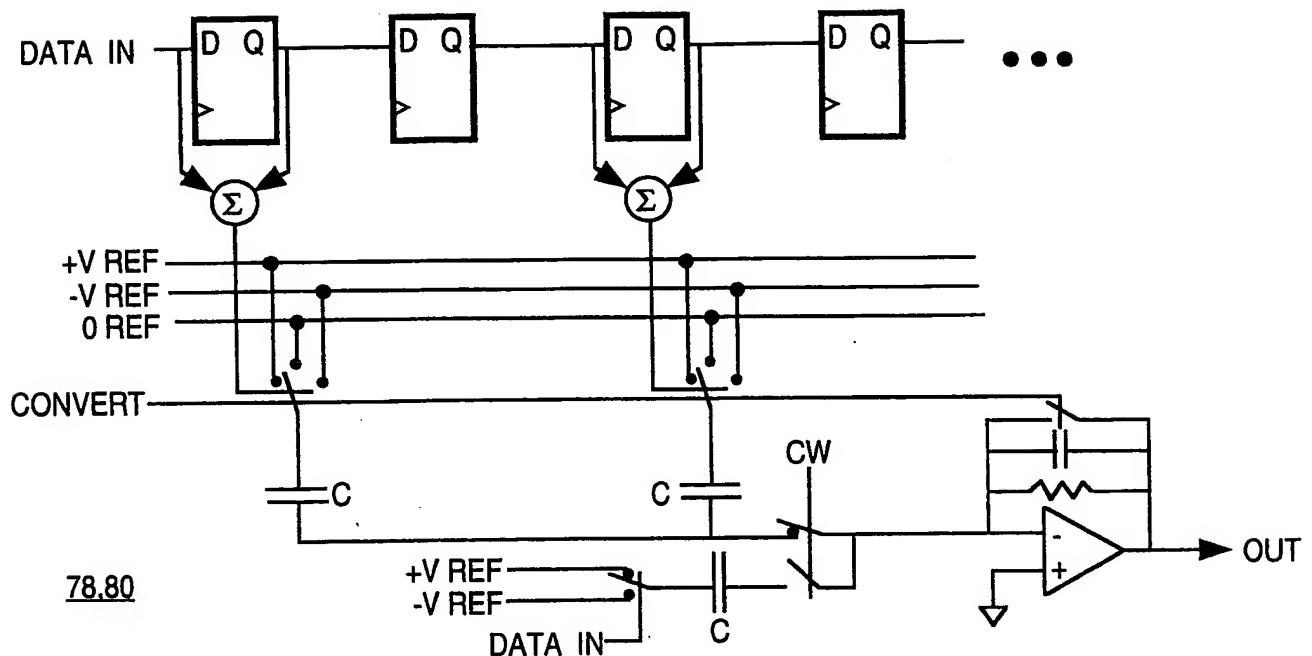
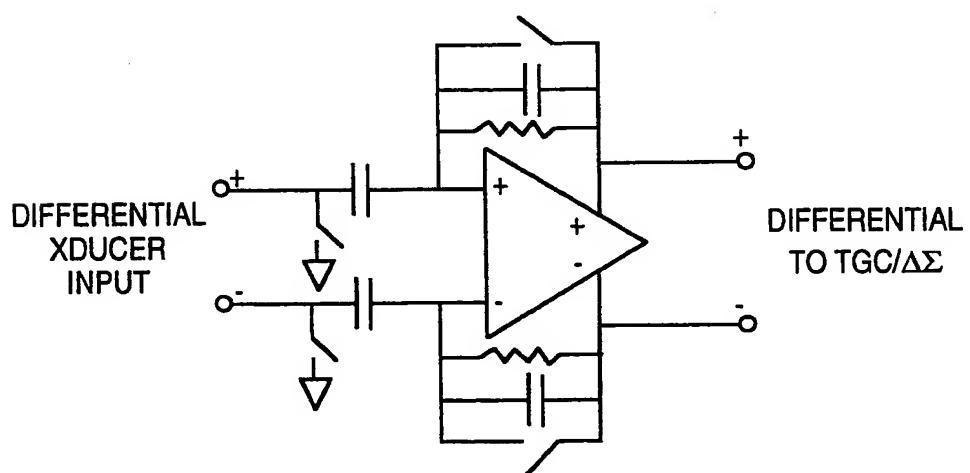
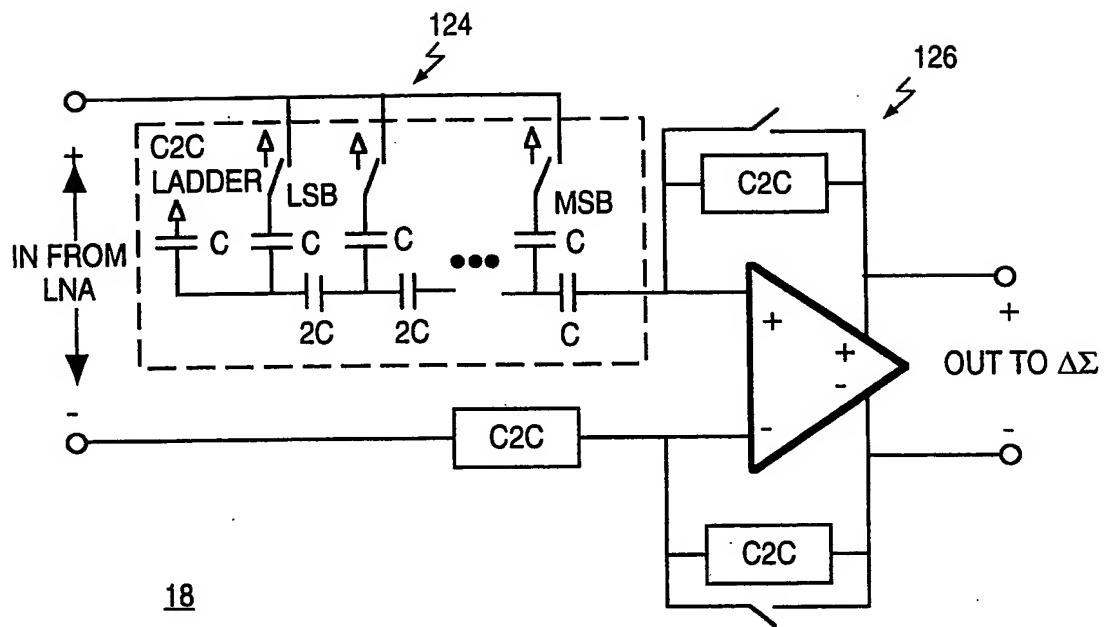
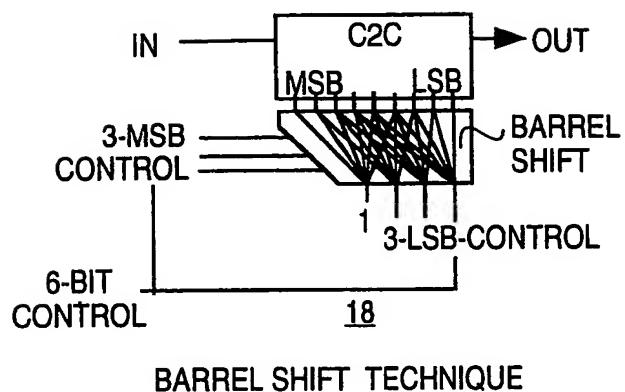
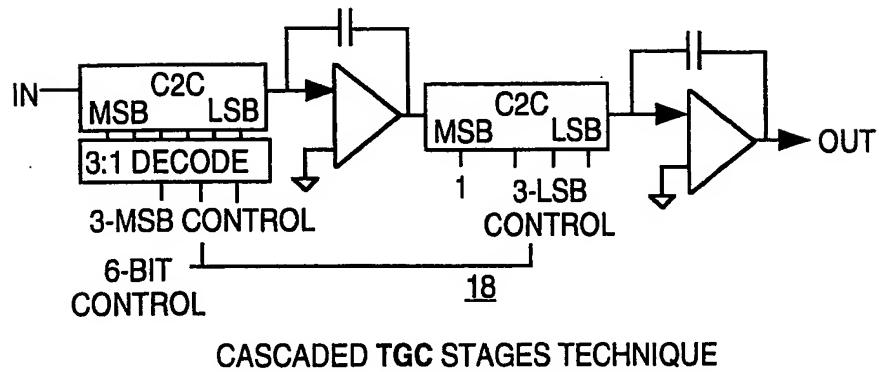
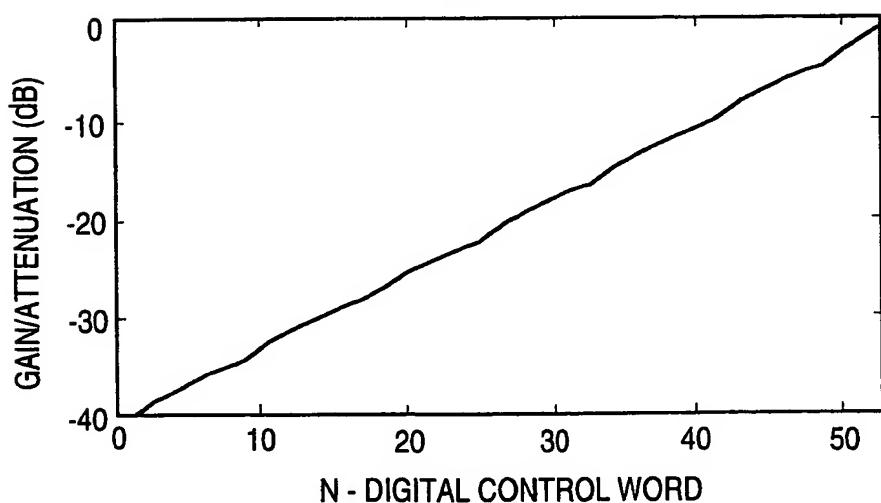
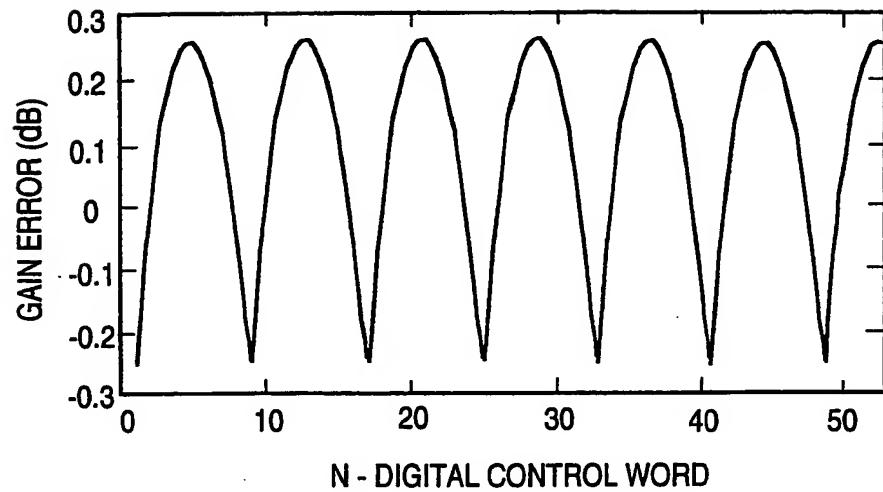
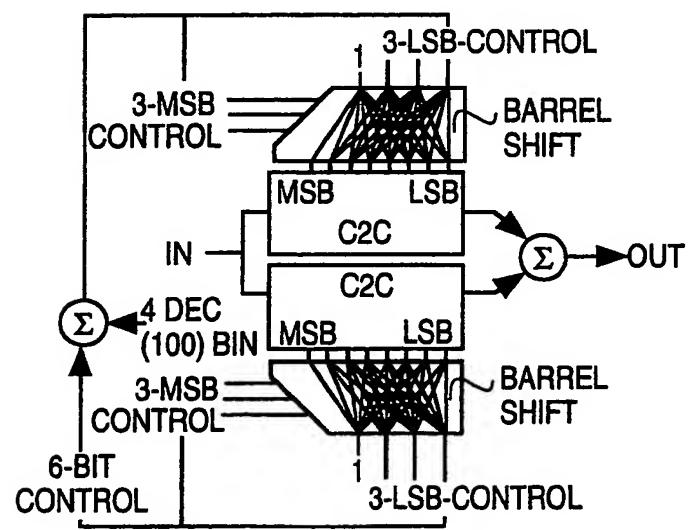


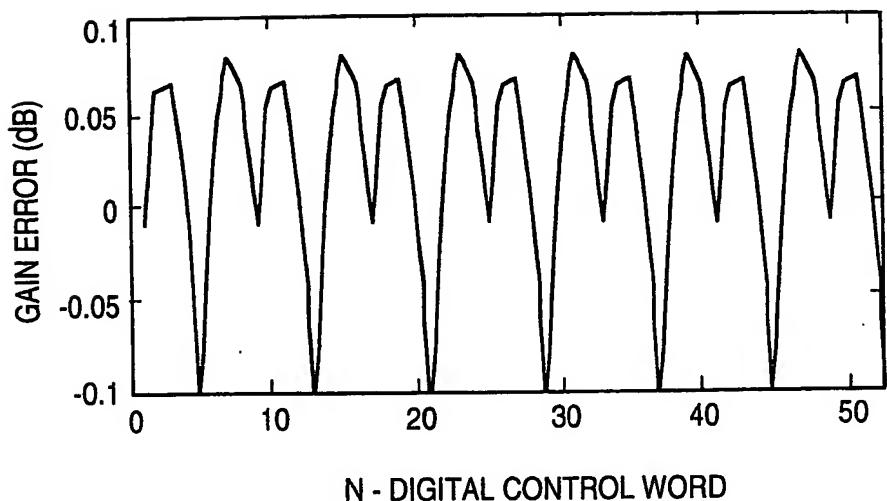
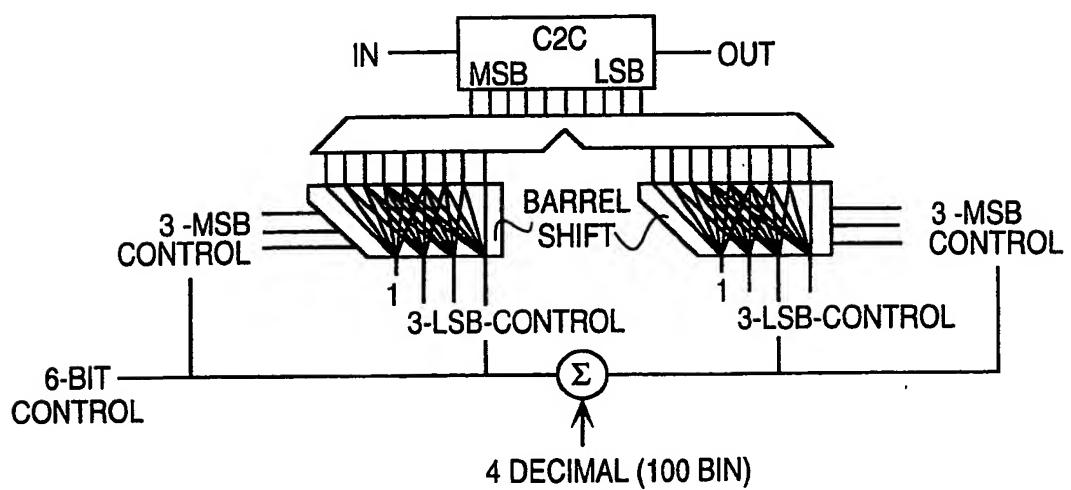
FIG. 18

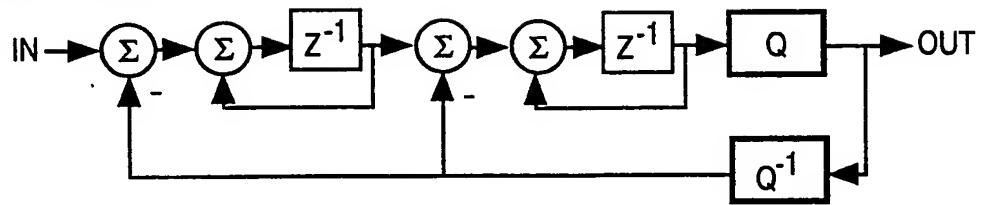
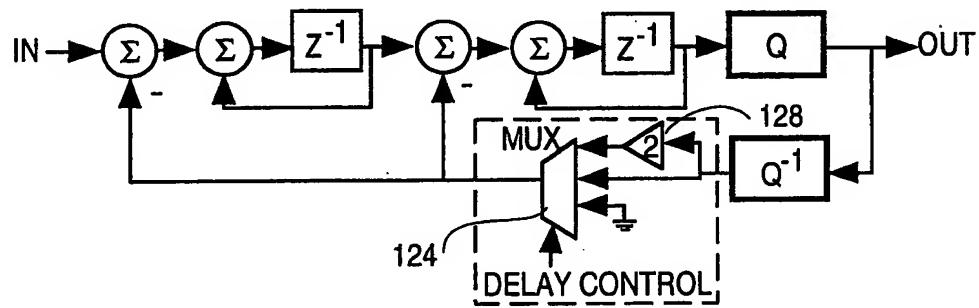
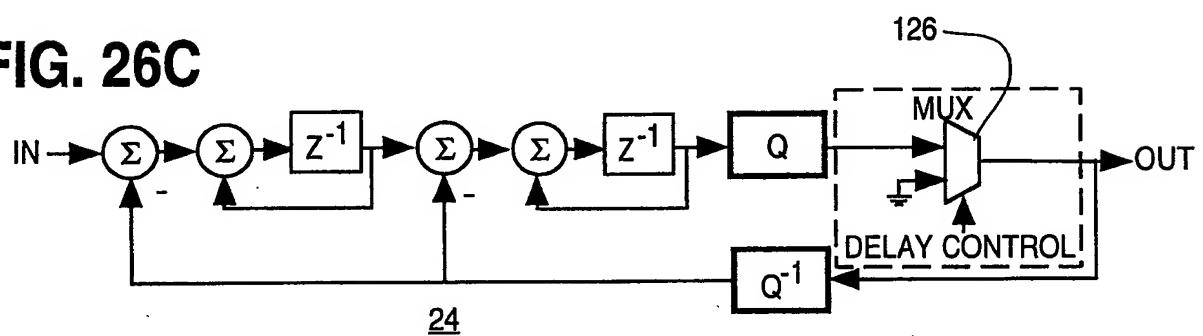
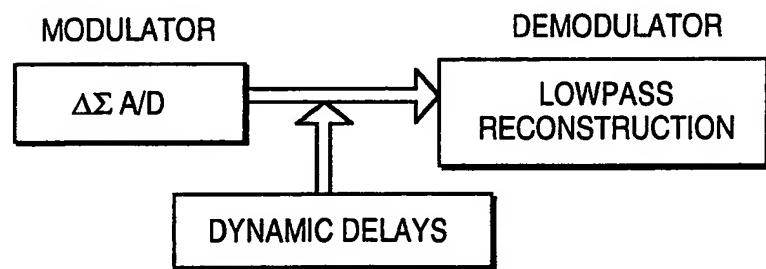


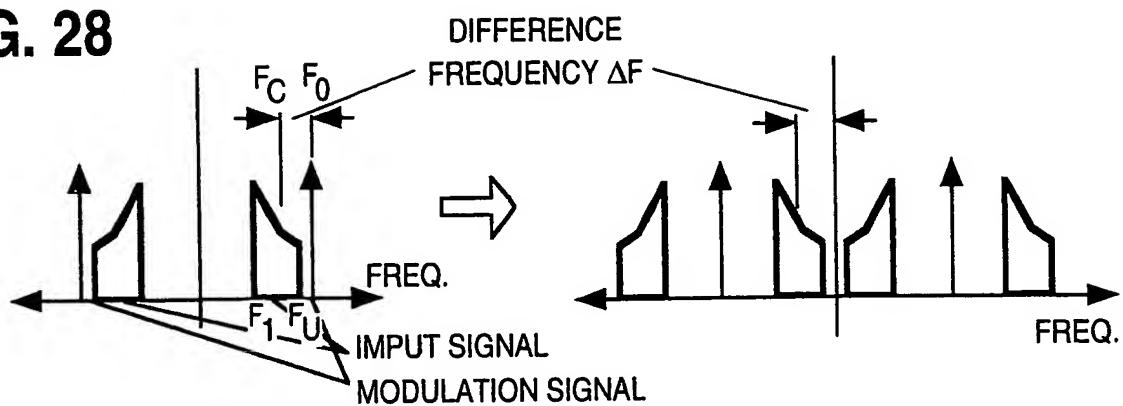
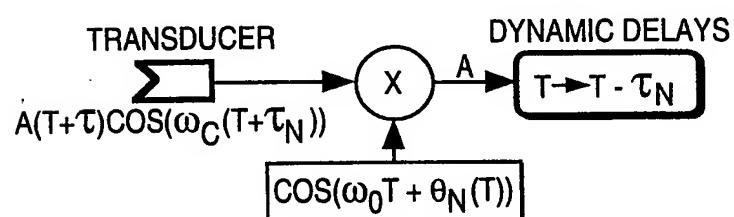
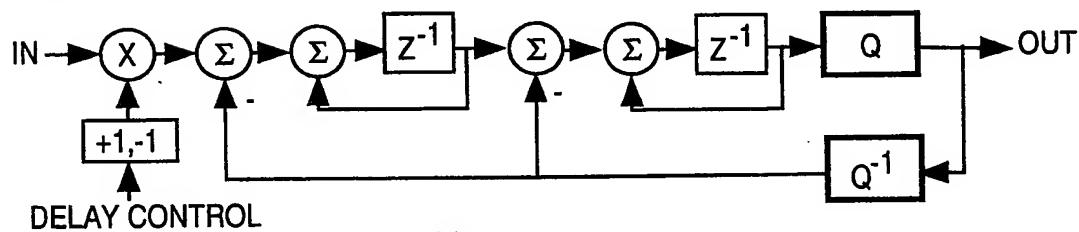
**FIG. 19**

**FIG. 20A****FIG. 20B****FIG. 21**

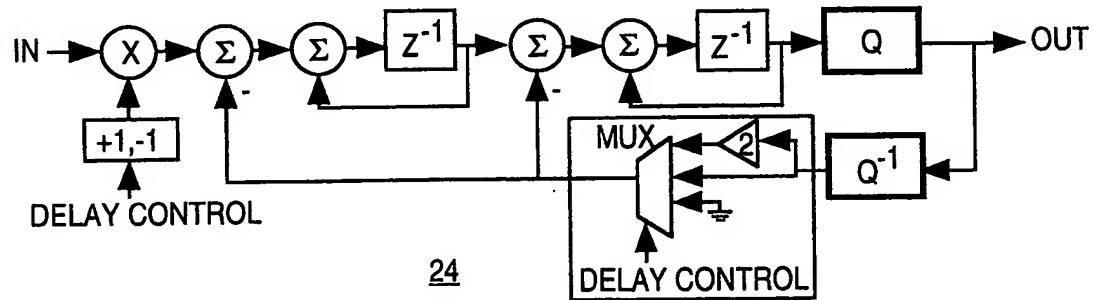
**FIG. 22****FIG. 23**

**FIG. 24****FIG. 25**

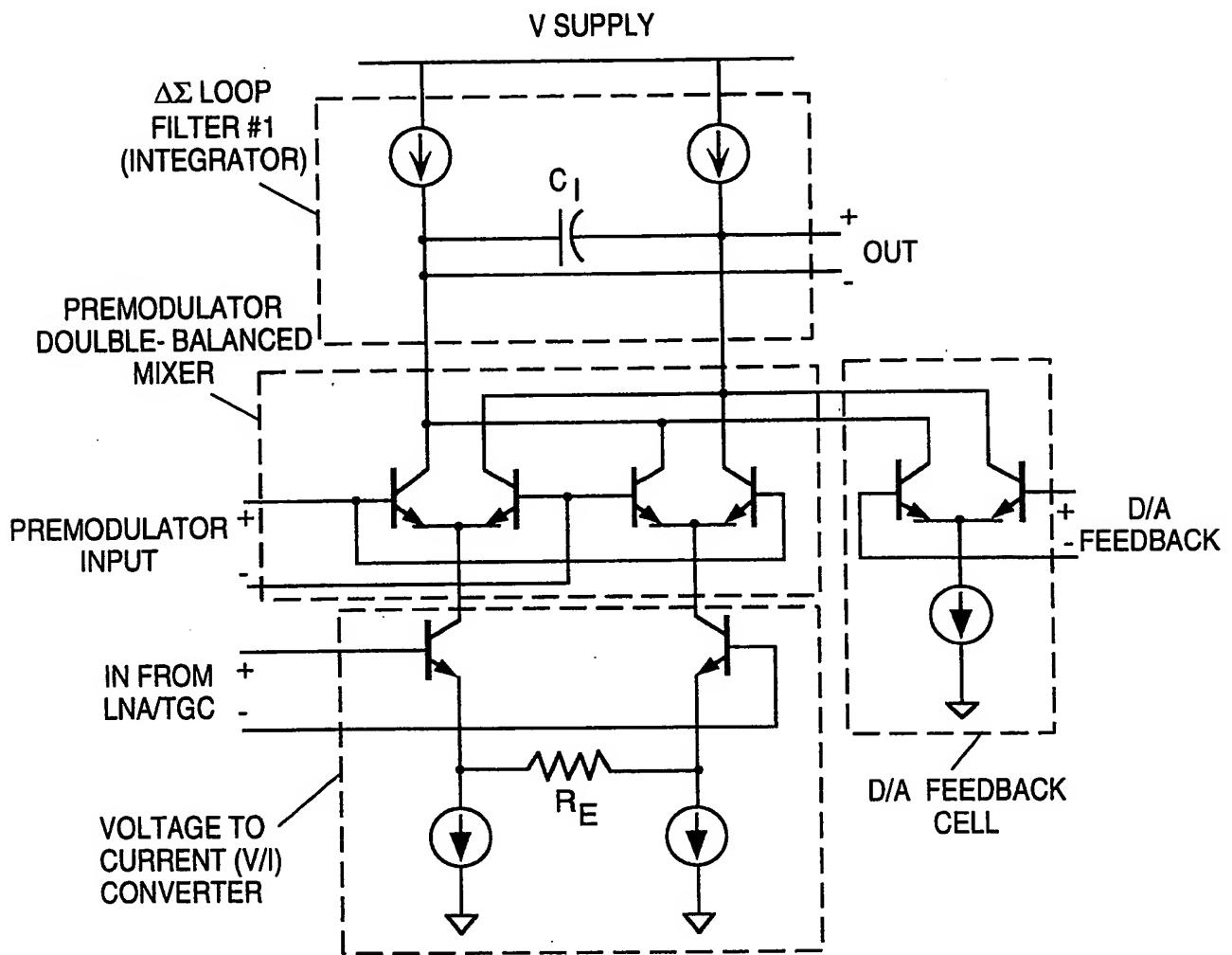
**FIG. 26A****FIG. 26B****FIG. 26C****FIG. 27**

**FIG. 28****FIG. 29****FIG. 30A**

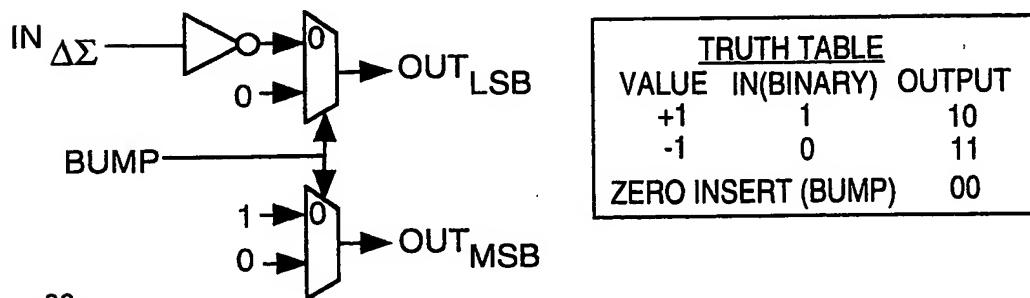
24

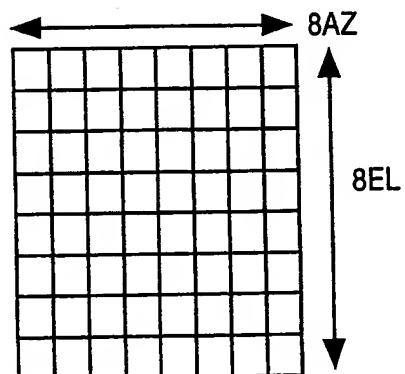
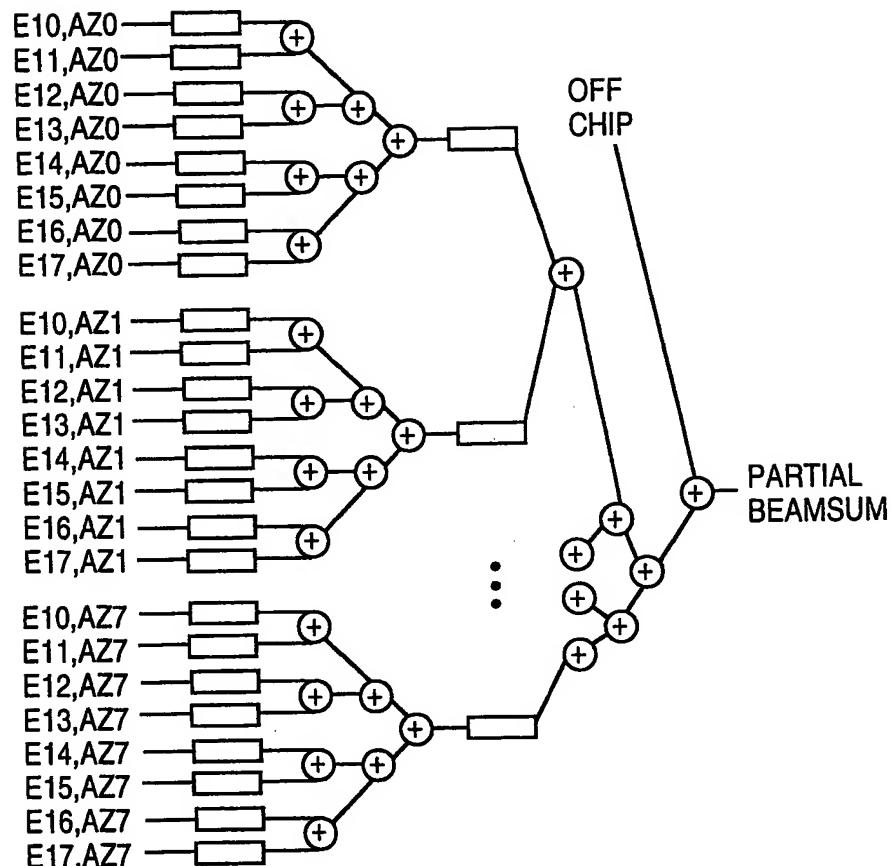
**FIG. 30B**

24

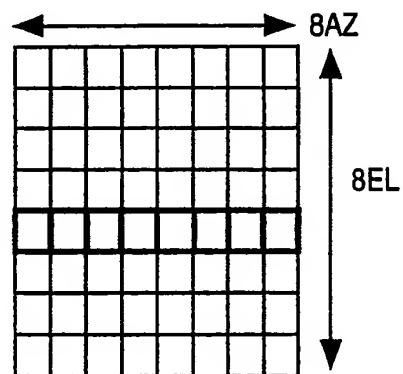
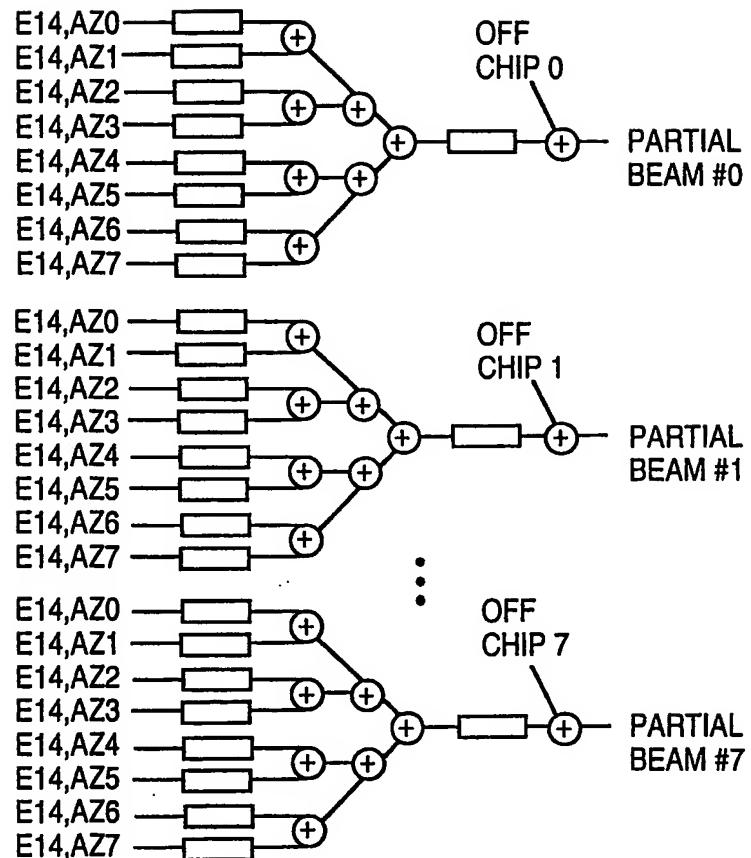
**FIG. 31**

24.26

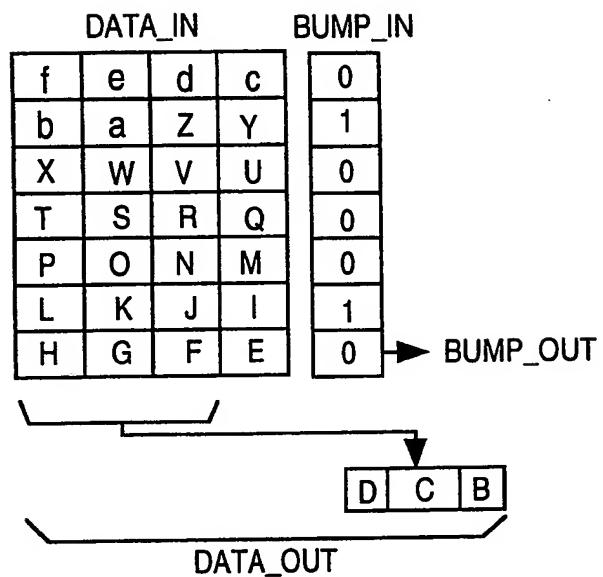
**FIG. 32**

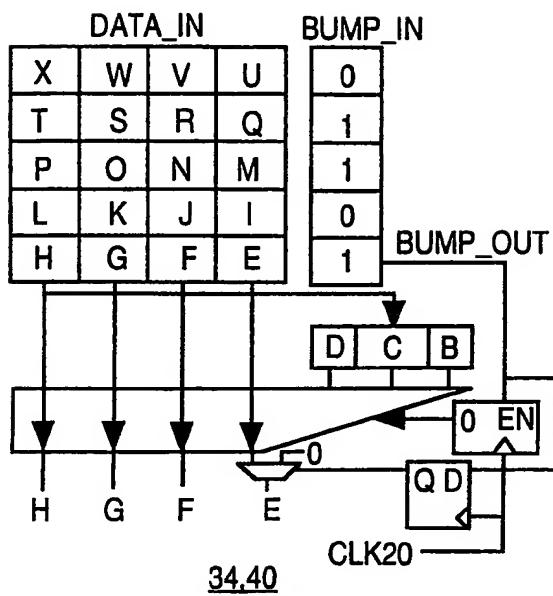
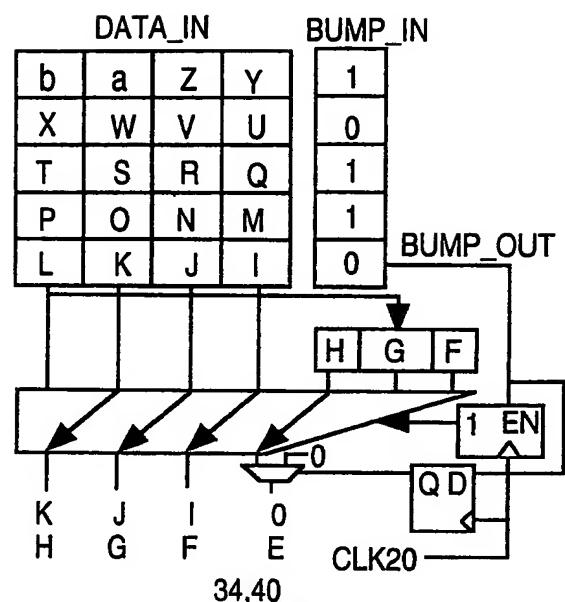
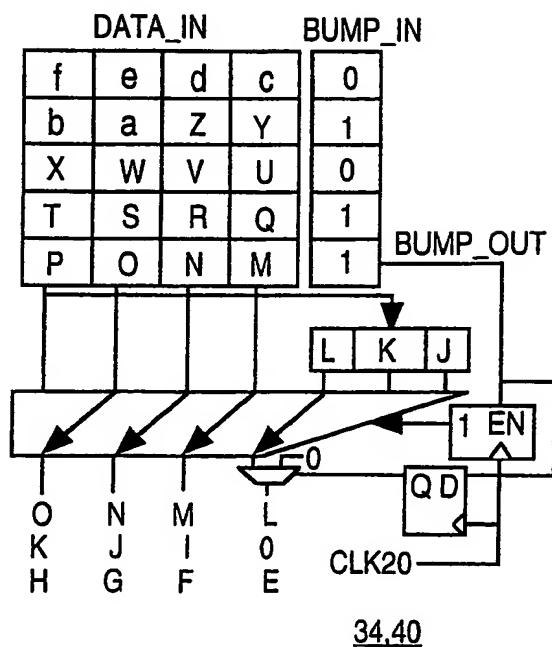
**FIG. 33A**

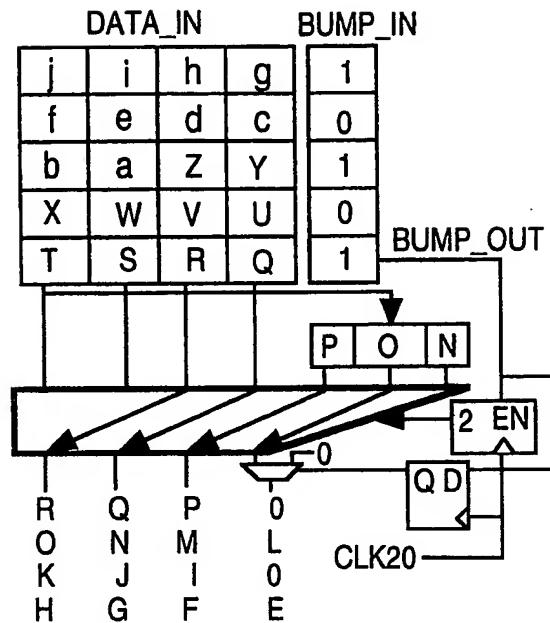
NORMAL BEAMFORMER

**FIG. 33B**

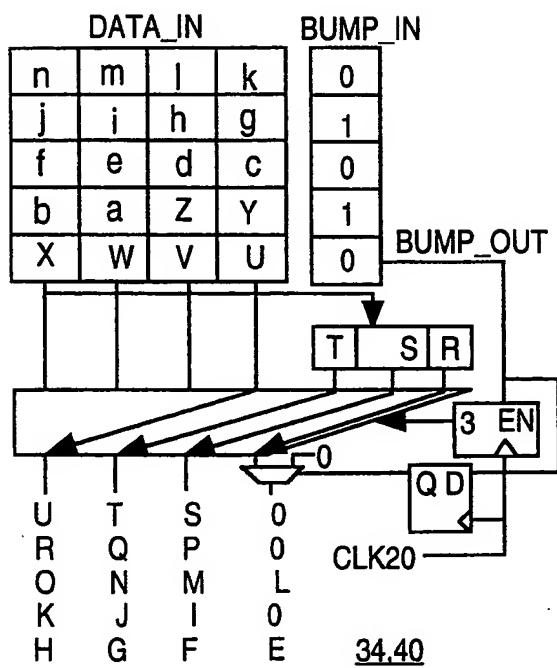
MULTIBEAM BEAMFORMER

**FIG. 34**34.40

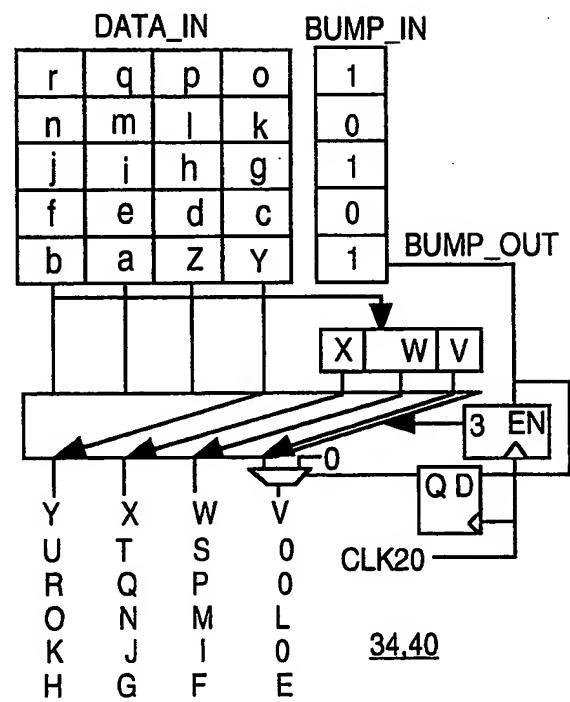
**FIG. 35A****FIG. 35B****FIG. 35C**

**FIG. 36A**

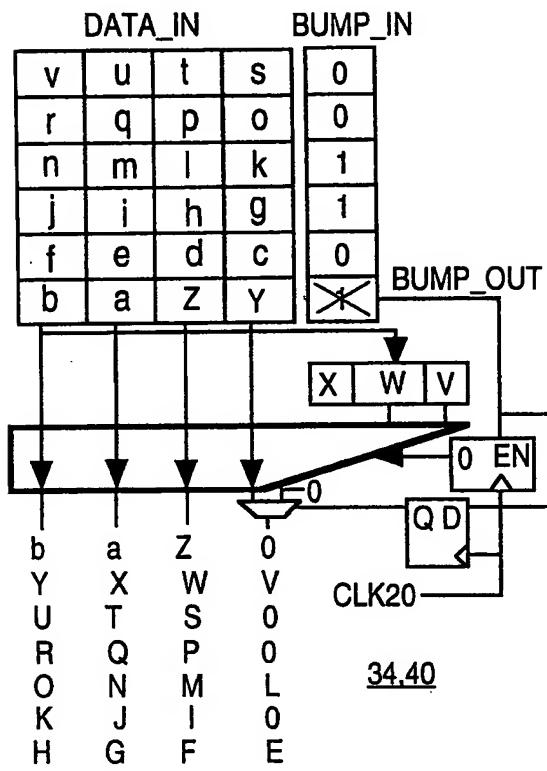
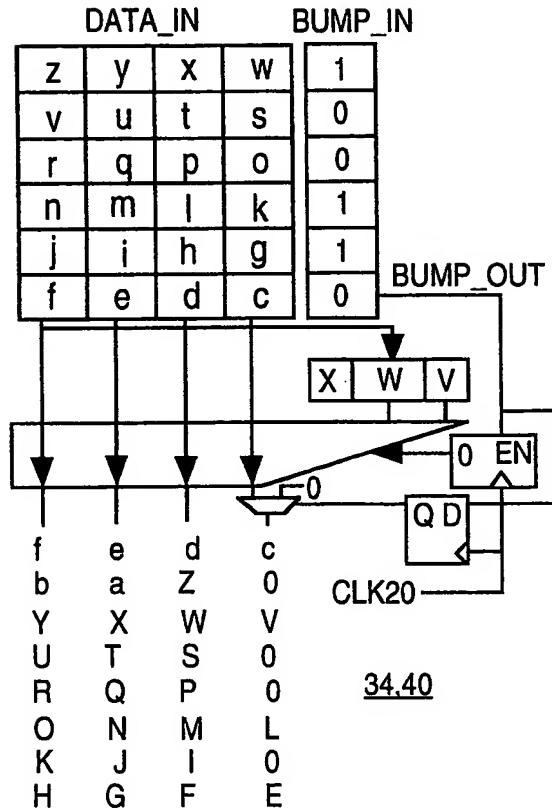
34.40

**FIG. 36B**

34.40

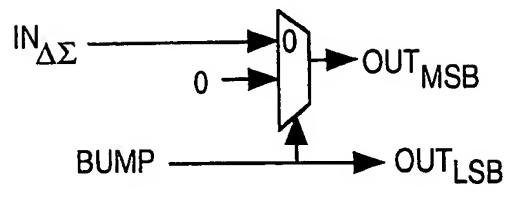
**FIG. 36C**

34.40

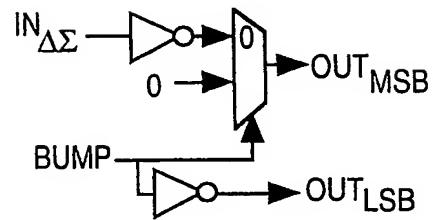
**FIG. 37A****FIG. 37B**

**FIG. 38A**

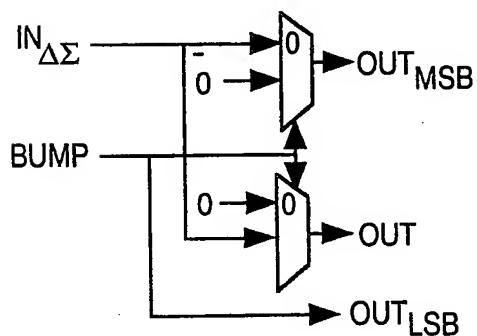
UNSIGNED:

**FIG. 38B**

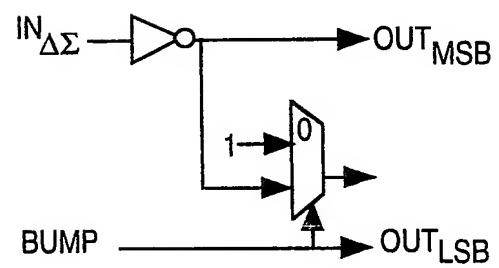
SIGNED:

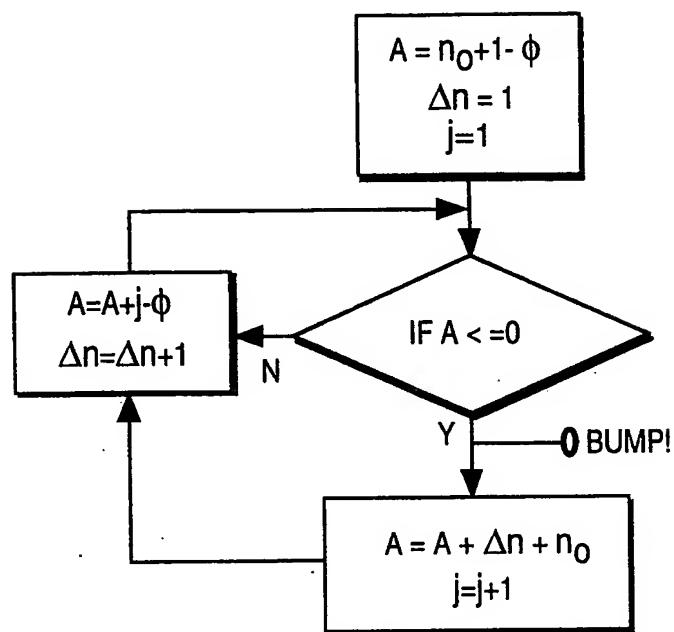
**FIG. 38C**

UNSIGNED:

**FIG. 38D**

SIGNED:



**FIG. 39****FIG. 40**